

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029531

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029531
REPORT IS A COMBINATION OF REPORTS P986140 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

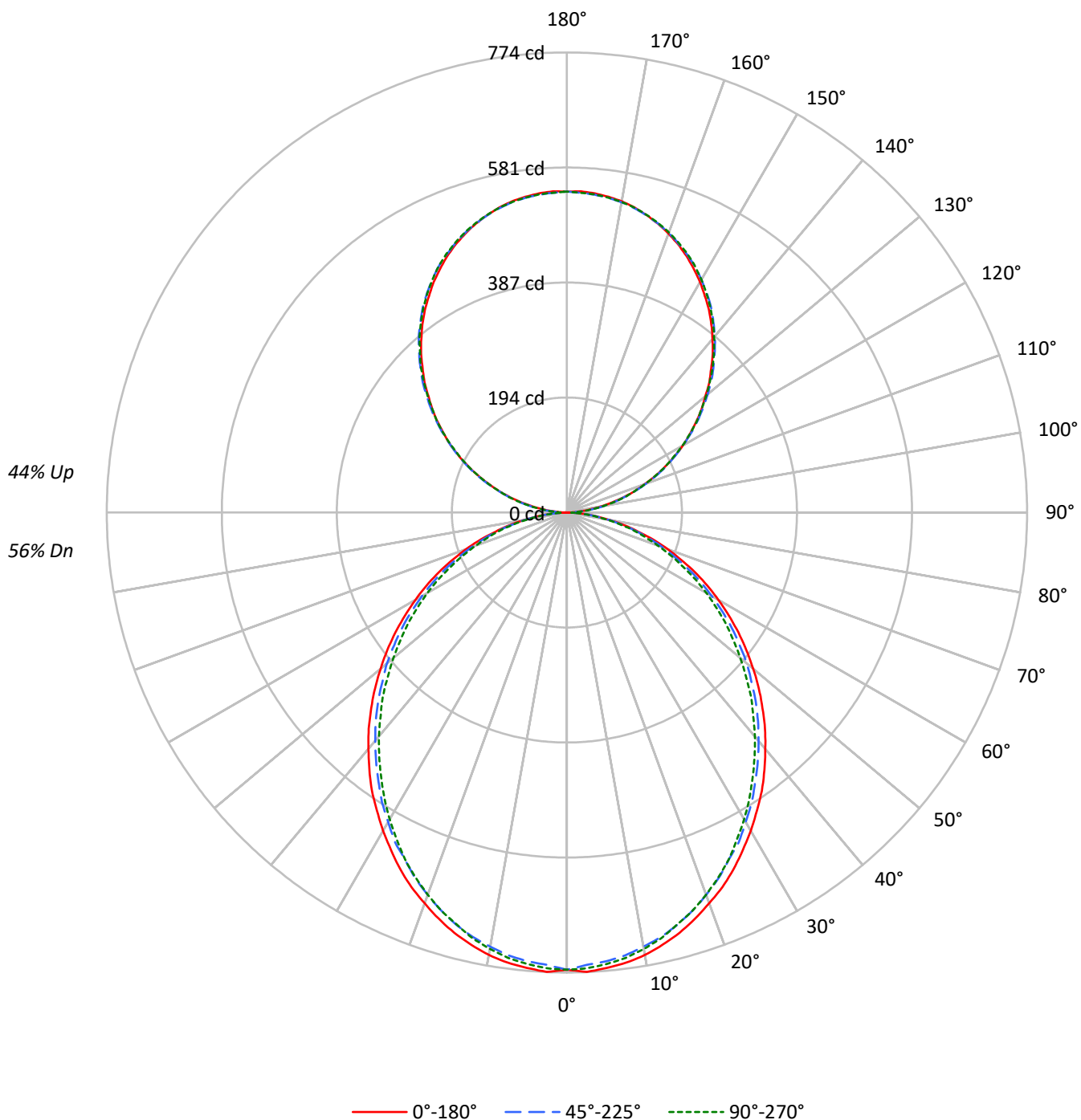
Lumens per Lamp: N/A
Luminaire Lumens: 3468.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44
3	82	73	65	60	76	68	61	56	59	54	50	51	47	44	43	40	38
4	75	65	57	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	58	49	43	64	54	47	41	47	41	37	41	36	32	34	31	28
6	64	52	43	38	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	37	31	38	33	28	33	29	25	29	25	22
8	55	42	35	29	51	40	33	28	35	29	25	31	26	22	26	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.1
10°-20°	203.7	5.9
20°-30°	299.3	8.6
30°-40°	347.7	10.0
40°-50°	347.2	10.0
50°-60°	302.8	8.7
60°-70°	223.8	6.5
70°-80°	126.6	3.7
80°-90°	34.9	1.0
90°-100°	33.4	1.0
100°-110°	106.2	3.1
110°-120°	181.7	5.2
120°-130°	238.9	6.9
130°-140°	268.2	7.7
140°-150°	263.0	7.6
150°-160°	220.6	6.4
160°-170°	146.3	4.2
170°-180°	51.1	1.5
0°-30°	575.4	16.6
0°-40°	923.1	26.6
0°-60°	1573.1	45.4
0°-90°	1958.5	56.5
90°-120°	321.2	9.3
90°-150°	1091.4	31.5
90°-180°	1509.0	43.5
0°-180°	3468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	0	6	16	15	16	3
95°	24	28	29	29	28	26
105°	98	99	100	101	101	103
115°	182	185	184	184	182	180
125°	265	269	268	266	266	237
135°	343	348	349	348	347	265
145°	416	420	422	423	421	260
155°	476	478	479	481	480	219
165°	518	518	518	521	518	146
175°	539	538	537	540	537	51
180°	540	540	540	540	540	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.5	5.9	15.9	15.0	15.5
92.5°	10.0	13.7	14.1	14.6	14.6
95°	23.7	28.2	29.2	29.2	28.2
97.5°	39.6	43.7	45.6	45.6	45.6
100°	57.9	61.5	62.9	62.9	62.4
102.5°	77.0	79.7	81.6	82.0	81.6
105°	98.0	99.3	100.2	101.1	101.1
107.5°	118.9	120.7	120.7	121.2	118.9
110°	139.0	141.7	141.7	141.7	140.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.8	163.6	163.1	161.7	160.8
115°	182.2	185.0	184.1	183.6	182.2
117.5°	203.7	207.3	205.0	203.7	202.3
120°	225.1	228.7	225.1	225.1	223.7
122.5°	244.7	249.2	246.9	245.6	244.7
125°	265.2	269.3	267.9	266.5	266.1
127.5°	285.2	290.2	288.4	286.6	285.2
130°	303.9	309.8	308.9	308.0	306.2
132.5°	324.9	329.4	329.9	327.6	326.2
135°	343.1	348.1	349.0	348.5	347.2
137.5°	363.1	367.2	368.1	367.7	365.9
140°	380.9	385.0	387.3	387.3	385.4
142.5°	399.1	403.2	404.6	405.0	403.2
145°	416.4	419.6	422.4	422.8	421.0
147.5°	431.9	436.0	437.8	438.8	436.9
150°	447.9	450.6	452.4	453.8	452.4
152.5°	462.0	464.7	467.0	468.8	467.0
155°	476.1	477.5	478.8	481.1	479.8
157.5°	488.4	489.3	490.2	493.4	491.2
160°	499.4	500.3	500.7	503.5	501.6
162.5°	509.4	509.4	509.8	513.0	510.7
165°	518.0	517.6	517.6	520.8	518.5
167.5°	525.8	524.4	524.4	527.6	525.3
170°	531.7	530.3	529.9	533.1	530.3
172.5°	535.8	534.4	534.0	537.2	534.4
175°	539.0	537.6	536.7	539.9	537.2
177.5°	540.8	539.4	538.5	541.3	538.5
180°	539.9	539.9	539.9	539.9	539.9

(END OF REPORT)